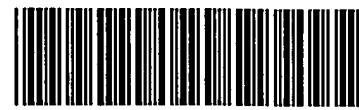


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/525,019
Source: PU110
Date Processed by STIC: 9/1/05

ENTERED



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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/525,019

DATE: 09/01/2005
TIME: 15:47:04

Input Set : A:\GIES3002.ST25.txt
Output Set: N:\CRF4\09012005\J525019.raw

3 <110> APPLICANT: Giesing, Michael
4 Suchy, Bernhard
6 <120> TITLE OF INVENTION: METHOD FOR ANALYZING BODY FLUIDS FOR THE PRESENCE OF CANCER
7 CELLS, USE THEREOF, CORRESPONDING ANALYSIS KITS, AND USE OF
8 SPECIFIC ACTIVE SUBSTANCES FOR TREATING CANCER
10 <130> FILE REFERENCE: GIES3002
12 <140> CURRENT APPLICATION NUMBER: 10/525,019
13 <141> CURRENT FILING DATE: 2005-02-18
15 <150> PRIOR APPLICATION NUMBER: PCT/EP03/009229
16 <151> PRIOR FILING DATE: 2003-08-20
18 <150> PRIOR APPLICATION NUMBER: DE 102 38 046.5
19 <151> PRIOR FILING DATE: 2002-08-20
21 <160> NUMBER OF SEQ ID NOS: 22
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 22
27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial
30 <220> FEATURE:
31 <223> OTHER INFORMATION: forward primer (MNSOD)
33 <400> SEQUENCE: 1
34 gtcaccgagg agaagtacca gg 22
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 20
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial
42 <220> FEATURE:
43 <223> OTHER INFORMATION: reverse primer (MNSOD)
45 <400> SEQUENCE: 2
46 gggctgaggt ttgtccagaa 20
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 27
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial
54 <220> FEATURE:
55 <223> OTHER INFORMATION: probe (MNSOD)
57 <400> SEQUENCE: 3
58 cgttggccaa gggagatgtt acagccc 27
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 23
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial
66 <220> FEATURE:

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67 <223> OTHER INFORMATION: forward primer (TXNRD1)
 69 <400> SEQUENCE: 4
 70 ggagggcaga cttcaaaagc tac 23
 73 <210> SEQ ID NO: 5
 74 <211> LENGTH: 22
 75 <212> TYPE: DNA
 76 <213> ORGANISM: Artificial
 78 <220> FEATURE:
 79 <223> OTHER INFORMATION: reverse primer (TXNRD1)
 81 <400> SEQUENCE: 5
 82 acaaagtcca ggaccatcac ct 22
 85 <210> SEQ ID NO: 6
 86 <211> LENGTH: 26
 87 <212> TYPE: DNA
 88 <213> ORGANISM: Artificial
 90 <220> FEATURE:
 91 <223> OTHER INFORMATION: probe (TXNRD1)
 93 <400> SEQUENCE: 6
 94 ttgggctgcc tccttagcag ctgcc 26
 97 <210> SEQ ID NO: 7
 98 <211> LENGTH: 17
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Artificial
 102 <220> FEATURE:
 103 <223> OTHER INFORMATION: forward primer (GPX1)
 105 <400> SEQUENCE: 7 17
 106 ctcggcttcc cgtgcaa
 109 <210> SEQ ID NO: 8
 110 <211> LENGTH: 19
 111 <212> TYPE: DNA
 112 <213> ORGANISM: Artificial
 114 <220> FEATURE:
 115 <223> OTHER INFORMATION: reverse primer (GPX1)
 117 <400> SEQUENCE: 8
 118 tgaagttggg ctcgaaccc 19
 121 <210> SEQ ID NO: 9
 122 <211> LENGTH: 28
 123 <212> TYPE: DNA
 124 <213> ORGANISM: Artificial
 126 <220> FEATURE:
 127 <223> OTHER INFORMATION: probe (GPX1)
 129 <400> SEQUENCE: 9
 130 agtttggca tcaggagaac gccaaagaa 28
 133 <210> SEQ ID NO: 10
 134 <211> LENGTH: 19
 135 <212> TYPE: DNA
 136 <213> ORGANISM: Artificial
 138 <220> FEATURE:
 139 <223> OTHER INFORMATION: forward primer (GAPDH)

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Input Set : A:\GIES3002.ST25.txt

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141 <400> SEQUENCE: 10 19
 142 tgctgatgcc cccatgttc
 145 <210> SEQ ID NO: 11
 146 <211> LENGTH: 20
 147 <212> TYPE: DNA
 148 <213> ORGANISM: Artificial
 150 <220> FEATURE:
 151 <223> OTHER INFORMATION: reverse primer (GAPDH)
 153 <400> SEQUENCE: 11 20
 154 ggcagtgtat gcatggactg
 157 <210> SEQ ID NO: 12
 158 <211> LENGTH: 27
 159 <212> TYPE: DNA
 160 <213> ORGANISM: Artificial
 162 <220> FEATURE:
 163 <223> OTHER INFORMATION: probe (GAPDH)
 165 <400> SEQUENCE: 12 27
 166 tcaagatcat cagcaatgcc tcctgca
 169 <210> SEQ ID NO: 13
 170 <211> LENGTH: 222
 171 <212> TYPE: PRT
 172 <213> ORGANISM: Homo sapiens
 174 <400> SEQUENCE: 13
 176 Met Leu Ser Arg Ala Val Cys Gly Thr Ser Arg Gln Leu Ala Pro Ala
 177 1 5 10 15
 180 Leu Gly Tyr Leu Gly Ser Arg Gln Lys His Ser Leu Pro Asp Leu Pro
 181 20 25 30
 184 Tyr Asp Tyr Gly Ala Leu Glu Pro His Ile Asn Ala Gln Ile Met Gln
 185 35 40 45
 188 Leu His His Ser Lys His His Ala Ala Tyr Val Asn Asn Leu Asn Val
 189 50 55 60
 192 Thr Glu Glu Lys Tyr Gln Glu Ala Leu Ala Lys Gly Asp Val Thr Ala
 193 65 70 75 80
 196 Gln Thr Ala Leu Gln Pro Ala Leu Lys Phe Asn Gly Gly His Ile
 197 85 90 95
 200 Asn His Ser Ile Phe Trp Thr Asn Leu Ser Pro Asn Gly Gly Glu
 201 100 105 110
 204 Pro Lys Gly Glu Leu Leu Glu Ala Ile Lys Arg Asp Phe Gly Ser Phe
 205 115 120 125
 208 Asp Lys Phe Lys Glu Lys Leu Thr Ala Ala Ser Val Gly Val Gln Gly
 209 130 135 140
 212 Ser Gly Trp Gly Trp Leu Gly Phe Asn Lys Glu Arg Gly His Leu Gln
 213 145 150 155 160
 216 Ile Ala Ala Cys Pro Asn Gln Asp Pro Leu Gln Gly Thr Thr Gly Leu
 217 165 170 175
 220 Ile Pro Leu Leu Gly Ile Asp Val Trp Glu His Ala Tyr Tyr Leu Gln
 221 180 185 190
 224 Tyr Lys Asn Val Arg Pro Asp Tyr Leu Lys Ala Ile Trp Asn Val Ile
 225 195 200 205

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Input Set : A:\GIES3002.ST25.txt
Output Set: N:\CRF4\09012005\J525019.raw

228 Asn Trp Glu Asn Val Thr Glu Arg Tyr Met Ala Cys Lys Lys
229 210 215 220
232 <210> SEQ ID NO: 14
233 <211> LENGTH: 976
234 <212> TYPE: DNA
235 <213> ORGANISM: Homo sapiens
237 <400> SEQUENCE: 14
238 gcgggcggcg caggagccgc actcgtggct gtggtggctt cggcagcggc ttcagcagat 60
240 cggcggcattc agcggttagca ccagcaactag cagcatgtt agccgggcag tggcggcac 120
242 cagcaggcag ctggctccgg ctttggggta tctgggctcc aggcagaagc acagcctccc 180
244 cgacactgccc tacgactacg ggcgccttggaa acctcacatc aacgcgcaga tcatgcagct 240
246 gcaccacagc aagcaccacg cggcctacgt gaacaacctg aacgtcaccg aggagaagta 300
248 ccaggaggcg ttggccaagg gagatgttac agcccagaca gcttccagc ctgcactgaa 360
250 gttcaatggt ggtggtcata tcaatcatag cattttctgg acaaaccctca gccctaacgg 420
252 tggggagaaa cccaaagggg agttgcttga agccatcaaa cgtgactttt gttccatttga 480
254 caagtttaag gagaagctga cggctgcattc tggtgggttc caaggctcag gttgggggtt 540
256 gttgggttc aataaggaac ggggacactt acaaattgtt gttgtccaa atcaggatcc 600
258 actgcaaggaa acaacaggcc ttattccact gttggggatt gatgtgtggg agcacgctta 660
260 ctaccttcag tataaaaaatg tcaggccttga ttatctaaaa gctatttggaa atgttaatcaa 720
262 ctgggagaat gtaactgaaa gatacatggc ttgcaaaaag taaaccacga tcgttatgct 780
264 gagatgttta agctctttt gactgtttt gtatgtt gatgtactgc agaatacagt 840
266 aagctgctct attgttagcat ttcttgatgt tgcttagtca cttatccat aaacaactta 900
268 atgttctgaa taatttctta ctaaacattt tgttattggg caagtgattt aaaaatgtt 960
270 atgctttgtt tgattt 976
273 <210> SEQ ID NO: 15
274 <211> LENGTH: 497
275 <212> TYPE: PRT
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 15
280 Met Asn Gly Pro Glu Asp Leu Pro Lys Ser Tyr Asp Tyr Asp Leu Ile
281 1 5 10 15
284 Ile Ile Gly Gly Ser Gly Gly Leu Ala Ala Ala Lys Glu Ala Ala
285 20 25 30
288 Gln Tyr Gly Lys Lys Val Met Val Leu Asp Phe Val Thr Pro Thr Pro
289 35 40 45
292 Leu Gly Thr Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys
293 50 55 60
296 Ile Pro Lys Lys Leu Met His Gln Ala Ala Leu Leu Gly Gln Ala Leu
297 65 70 75 80
300 Gln Asp Ser Arg Asn Tyr Gly Trp Lys Val Glu Glu Thr Val Lys His
301 85 90 95
304 Asp Trp Asp Arg Met Ile Glu Ala Val Gln Asn His Ile Gly Ser Leu
305 100 105 110
308 Asn Trp Gly Tyr Arg Val Ala Leu Arg Glu Lys Lys Val Val Tyr Glu
309 115 120 125
312 Asn Ala Tyr Gly Gln Phe Ile Gly Pro His Arg Ile Lys Ala Thr Asn
313 130 135 140
316 Asn Lys Gly Lys Glu Lys Ile Tyr Ser Ala Glu Ser Phe Leu Ile Ala
317 145 150 155 160

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PATENT APPLICATION: US/10/525,019

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Input Set : A:\GIES3002.ST25.txt
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320 Thr Gly Glu Arg Pro Arg Tyr Leu Gly Ile Pro Gly Asp Lys Glu Tyr
 321 165 170 175
 324 Cys Ile Ser Ser Asp Asp Leu Phe Ser Leu Pro Tyr Cys Pro Gly Lys
 325 180 185 190
 328 Thr Leu Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys Ala Gly Phe
 329 195 200 205
 332 Leu Ala Gly Ile Gly Leu Gly Val Thr Val Met Val Arg Ser Ile Leu
 333 210 215 220
 336 Leu Arg Gly Phe Asp Gln Asp Met Ala Asn Lys Ile Gly Glu His Met
 337 225 230 235 240
 340 Glu Glu His Gly Ile Lys Phe Ile Arg Gln Phe Val Pro Ile Lys Val
 341 245 250 255
 344 Glu Gln Ile Glu Ala Gly Thr Pro Gly Arg Leu Arg Val Val Ala Gln
 345 260 265 270
 348 Ser Thr Asn Ser Glu Glu Ile Ile Glu Gly Glu Tyr Asn Thr Val Met
 349 275 280 285
 352 Leu Ala Ile Gly Arg Asp Ala Cys Thr Arg Lys Ile Gly Leu Glu Thr
 353 290 295 300
 356 Val Gly Val Lys Ile Asn Glu Lys Thr Gly Lys Ile Pro Val Thr Asp
 357 305 310 315 320
 360 Glu Glu Gln Thr Asn Val Pro Tyr Ile Tyr Ala Ile Gly Asp Ile Leu
 361 325 330 335
 364 Glu Asp Lys Val Glu Leu Thr Pro Val Ala Ile Gln Ala Gly Arg Leu
 365 340 345 350
 368 Leu Ala Gln Arg Leu Tyr Ala Gly Ser Thr Val Lys Cys Asp Tyr Glu
 369 355 360 365
 372 Asn Val Pro Thr Thr Val Phe Thr Pro Leu Glu Tyr Gly Ala Cys Gly
 373 370 375 380
 376 Leu Ser Glu Glu Lys Ala Val Glu Lys Phe Gly Glu Glu Asn Ile Glu
 377 385 390 395 400
 380 Val Tyr His Ser Tyr Phe Trp Pro Leu Glu Trp Thr Ile Pro Ser Arg
 381 405 410 415
 384 Asp Asn Asn Lys Cys Tyr Ala Lys Ile Ile Cys Asn Thr Lys Asp Asn
 385 420 425 430
 388 Glu Arg Val Val Gly Phe His Val Leu Gly Pro Asn Ala Gly Glu Val
 389 435 440 445
 392 Thr Gln Gly Phe Ala Ala Ala Leu Lys Cys Gly Leu Thr Lys Lys Gln
 393 450 455 460
 396 Leu Asp Ser Thr Ile Gly Ile His Pro Val Cys Ala Glu Val Phe Thr
 397 465 470 475 480
 400 Thr Leu Ser Val Thr Lys Arg Ser Gly Ala Ser Ile Leu Gln Ala Gly
 401 485 490 495
 404 Cys
 408 <210> SEQ ID NO: 16
 409 <211> LENGTH: 1314
 410 <212> TYPE: DNA
 411 <213> ORGANISM: Homo sapiens
 413 <400> SEQUENCE: 16
 414 gaattcgggt ggagtcctga aggagggcct gatgtcttca tcattctcaa attcttgtaa 60

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/01/2005
PATENT APPLICATION: US/10/525,019 TIME: 15:47:05

Input Set : A: \GIES3002.ST25.txt
Output Set: N: \CRF4\09012005\J525019.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,19,20,21,22

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/525,019

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Input Set : A:\GIES3002.ST25.txt

Output Set: N:\CRF4\09012005\J525019.raw